

We claim:

1. The use of melamine resin sheets and/or films produced from cellulosic fiber materials post- or pre- and post-impregnated with an aqueous solution comprising

- (i) a melamine-formaldehyde condensate,
(ii) an etherified melamine-formaldehyde condensate, and
(iii) a polymer dispersion

for coating three-dimensionally structured surfaces and/or moldings (3D coating).

2. The use as claimed in claim 1, wherein the aqueous solution comprises

- (i) from 5 to 50% by weight of a melamine-formaldehyde condensation product,
(ii) from 5 to 50% by weight of an etherified melamine-formaldehyde condensate, and
(iii) from 20 to 90% by weight of a polymer dispersion,

the amounts of components (i), (ii) and (iii) adding up to 100% by weight and being based on the liquid resin mixture.

3. The use as claimed in claim 1 or 2, wherein the dispersion (iii) comprises copolymers of acrylates comprising carboxyl, hydroxyl, amide, glycidyl, carbonyl, N-methylol, N-alkoxymethyl, amino and/or hydrazo groups.

4. The use as claimed in any of claims 1 to 3, wherein the aqueous solution further comprises from 0.1 to 50% by weight of urea based on 100% by weight of the mixture of (i) to (iii).

5. The use as claimed in any of claims 1 to 3, wherein the aqueous solution comprises

- (i) from 10 to 30% by weight of a melamine-formaldehyde condensation product,
(ii) from 10 to 40% by weight of an etherified melamine-formaldehyde condensation product, and
(iii) from 30 to 80% by weight of a polymer dispersion,

the amounts of components (i), (ii) and (iii) adding up to 100% by weight and being based on the liquid resin mixture.

6. The use as claimed in any of claims 1 to 5 for coating articles having 3D surfaces and/or sharp-edged elements.
- 5 7. The use as claimed in any of claims 1 to 5 for coating with a single melamine resin sheet and/or film.
8. The use as claimed in any of claims 1 to 5 for coating woodbase materials.
9. The use as claimed in any of claims 1 to 5 for coating oriented strand boards (OSB).
- 10 10. The use as claimed in claim 1, wherein the cellulosic fiber materials are pre-impregnated with melamine-formaldehyde impregnating resins or with a mixture of melamine-formaldehyde impregnating resins and coating resins or with a mixture of urea-formaldehyde resins and melamine-urea-formaldehyde resins and post-impregnated with the aqueous solution of (i) to (iii) as set forth in claim 1.
- 15 11. A synthetic resin mixture for impregnating cellulosic fiber materials, comprising
- (i) from 5 to 50% by weight of a melamine-formaldehyde condensation product,
- 20 (ii) from 5 to 50% by weight of an etherified melamine-formaldehyde condensation product, and
- (iii) from 40 to 90% by weight of a copolymer in aqueous dispersion form which is crosslinkable by condensation reaction;
- 25 the amounts of components (i), (ii) and (iii) adding up to 100% by weight and being based on the liquid resin mixture
12. A synthetic resin mixture as claimed in claim 11, which uses as component (iii) a copolymer of acrylates comprising carboxyl, hydroxyl, amide, glycidyl, carbonyl, N-methylol, N-alkoxymethyl, amino and/or hydrazo groups.
- 30 13. A melamine resin sheet or film impregnated with a synthetic resin mixture as claimed in claim 11 or 12.
- 35 14. A method of 3D coating which comprises applying a melamine resin sheet and/or film as claimed in claim 13 two-dimensionally in one operation to the three-dimensional structure of a material.

15. A method of 3D coating which comprises producing melamine resin sheets and/or films from cellulosic fiber materials post- or pre- and post-impregnated with the aqueous solution of any of claims 1 to 3 and applying them to the three-dimensionally structured surface and/or molding to be coated.